

PTO/SB/018 (04-03)

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Form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Page 1 of 3

**Complete If Known**

Application Number	10705,391
Filing Date	11/10/03
First Named Inventor	HUGHES, JOY VANNELIA, et. al.
Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	018563-005910US

**U.S. PATENT DOCUMENTS**

Example	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
	AA	US-3,660,900		05-1972	Andrews	
	AB	US-3,660,803		01-1975	Levine	
	AC	US-4,755,139		07-1988	Abbatte et al.	
	AD	US-4,798,534		01-1989	Breads	
	AE	US-4,837,732		08-1989	Brandestini et al.	
	AF	US-4,858,991		08-1989	Breads et al.	
	AG	US-4,936,862		08-1990	Walker et al.	
	AH	US-5,035,813		07-1991	Breads et al.	
	AI	US-5,055,039		10-1991	Abbatte et al.	
	AJ	US-5,059,118		10-1991	Breads et al.	
	AK	US-5,139,419		08-1992	Andreiko et al.	
	AL	US-5,186,623		02-1993	Breads et al.	
	AM	US-5,273,429		12-1993	Rekow et al.	
	AN	US-5,338,198		08-1994	Wu et al.	
	AO	US-5,340,309		08-1994	Robertson	
	AP	US-5,342,202		08-1994	Deshayes	
	AQ	US-5,368,478		11-1994	Andreiko et al.	
	AR	US-5,382,184		01-1995	Stern	
	AS	US-5,395,238		03-1995	Andreiko et al.	
	AT	US-5,431,562		07-1995	Andreiko et al.	
	AU	US-5,447,725		09-1995	Damanl et al.	
	AV	US-5,452,210		09-1995	Dehoff et al.	
	AW	US-5,454,717		10-1995	Andreiko et al.	
	AX	US-5,474,448		12-1995	Andreiko et al.	
	AY	US-5,533,895		07-1996	Andreiko et al.	
	AZ	US-5,549,476		08-1996	Stern	
	BA	US-5,587,912		12-1996	Andersson et al.	
	BB	US-5,605,459		02-1997	Kuroda et al.	
	BC	US-5,607,305		03-1997	Andersson et al.	
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	BE	US-5,651,115		12-1998	Carlsson et al.	
	BF	US-5,975,893		11-1999	Chishil et al.	
	BG	US-6,371,781		04-2002	Cheang et al.	

Examiner  
SignatureDate  
Considered

3-21-06

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Substitute for form 1449/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Page 2 of 3

## Complete If Known

Application Number	10/705,391
Filing Date	11/10/03
First Named Inventor	HUGHES, JOY VANNELIA, et. al.
Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	018563-005910US

## U.S. PATENT DOCUMENTS

Examiner	Cite No. <sup>1</sup>	Document Number Number Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>3</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
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## NON PATENT LITERATURE DOCUMENTS

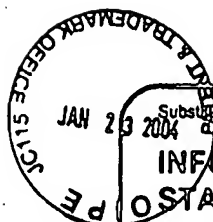
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	BH	AFTOSMIS, "Intersection of Generally Positioned Polygons in R <sup>2</sup> " Downloaded from web on 08/17/2000 <<http://george.arc.nasa.gov/~aftosmis/cart3d/bool_intersection.html>> pp. 1-4.	
	BI	AFTOSMIS, "Tie-breaking, Degeneracies and Floating Point Arithmetic" Downloaded from web on 04/28/1999 <<http://george.arc.nasa.gov/~aftosmis/cart3d/degeneracy/degeneracy.html>> pp. 1-2.	
	BJ	BOHM et al., "A survey of curve and surface methods in CAGD" Computer Aided Geometric Design (1984) 1:1-60.	
	BK	CHIAPPONE, "Constructing the Gnathologic Setup and Positioner" JCO. (02/1980) Vol. XIV No. 2, pp. 121-133.	
	BL	COTTINGHAM, "Gnathologic Clear Plastic Positioner" Am. J. Orthodontics, (01/1989) Vol. 55 No. 1, pp. 23-31.	
	BM	CURETON, "Correcting Malaligned Mandibular Incisors with Removable Retainers" J. Clin. Orthodon. (1996) 30:390-395.	
	BN	EDELSBRUNNER et al., "Simulation of Simplicity: A Technique to Cope with Degenerate Cases in Geometric Algorithms" ACM Transactions on Graphics (1990) 9(1):68-104.	
	BO	KESLING, "The Philosophy of the Tooth Positioning Appliance" Am J. Orthod. Oral Surg. (08/1945) Vol. 31, No. 6 pp. 297-304.	

Examiner Signature	Date Considered	3-21-06
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Substitute for form 1448/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Page 3 of 3

**Complete if Known**

Application Number	10/705,391
Filing Date	11/10/03
First Named Inventor	HUGHES, JOY VANNELIA, et. al.
Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	018583-005910US

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	BP	KESLING, "Coordinating the Predetermined Pattern and Tooth Positioner with Conventional Treatment" Am. J. Orthod. Oral Surg., (1946) 32:285-293.	
	BQ	KLEEMAN et al., "The Speed Positioner" JCO (12/1998) Vol. XXX, No. 12, pp. 673-680.	
	BR	KURODA et al., "Three-Dimensional Dental Cast Analyzing System Using Laser Scanning" Am. J. Orthod. Dentol. Orthop. (10/1998) Vol. 110, No. 4, pp. 365-369.	
	BS	"Adapting Vacuum Thermoforming Machines for Essix" <a href="http://www.essix.com/magazine/default.html">http://www.essix.com/magazine/default.html</a> , 08/13/1997.	
	BT	SHILLIDAY, "Minimizing Finishing Problems with the Mini-Positioner" Am. J. Orthodontics, (1971) 59:586-589.	
	BU	Tru-Tain Orthodontic & Dental Supplies, AAOE Case Partner (1980)	
	BV	WARUNEK, et al., "Clinical Use of Silicone Elastomer Appliances" JCO (10/1988) Vol. XXIII, No. 10, pp. 694-700.	
	BW	WELLS, "Application of the Positioner Appliance in Orthodontic Treatment" Am. J. Orthodont (10/1970) Vol. 58, No. 4, pp. 351-368.	

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Examiner Signature		Date Considered	3-21-04
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Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Complete If Known</b>			
		Application Number	10/705,391		
		Filing Date	November 10, 2003		
		First Named Inventor	Hughes, Joy Vannella		
		Art Unit	3732		
		Examiner Name	Manahan, Todd E.		
Sheet	1	of	2	Attorney Docket Number	018563-005910US

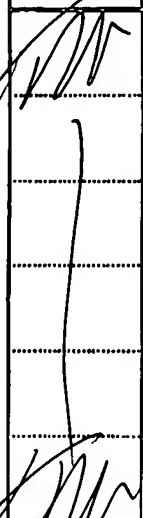
U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	6,318,994 B1	11-20-2001	Chishti et al.	
	2	6,463,344 B1	10-08-2002	Pavloskaia et al.	
	3	6,608,628	08-19-2003	Ross et al.	


FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	4	PCT	WO 98/58,596	A1	12-30-1998	Chishti et al.		<input type="checkbox"/>

Examiner Signature		Date Considered	4-18-07
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Substitute for form 1449B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Complete If Known</b>			
		Application Number	10/705,391		
		Filing Date	November 10, 2003		
		First Named Inventor	Hughes, Joy Vannella		
		Art Unit	3732		
		Examiner Name	Manahan, Todd E.		
Sheet	2	of	2	Attorney Docket Number	018563-005910US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	5	"Intersection of Generally Positioned Polygons in $R^3$ ," (August 17, 2000), < <a href="http://george.arc.nasa.gov/~aftosmis/cart3d/bool_intersection.html">http://george.arc.nasa.gov/~aftosmis/cart3d/bool_intersection.html</a> >, pages 1-4.	<input type="checkbox"/>
	6	"Tie-Breaking, Degeneracies, and Floating Point Arithmetic," (April 28, 1999), < <a href="http://george.arc.nasa.gov/~aftosmis/cart3d/degeneracy/degeneracy.html">http://george.arc.nasa.gov/~aftosmis/cart3d/degeneracy/degeneracy.html</a> >, pages 1 and 2.	<input type="checkbox"/>
	7	EDELSBRUNNER and MUCKE, "Simulation of Simplicity: A Technique to Cope with Degenerate Cases in Geometric Algorithms," <i>ACM Transactions on Graphics</i> 9:66-104 (1990).	<input type="checkbox"/>
	8	BÖHM W., et al., "A Survey of Curve and Surface Methods on CAGD," <i>Computer Aided Geometric Design</i> 1, pp. 1-60 (1984).	<input type="checkbox"/>
	9	STRANG G., <i>Linear Algebra and Its Applications</i> , 3rd Ed., Saunders College Publishing. (February 10, 1988)	<input type="checkbox"/>
	10	PRESS W., et al., "Numerical Recipes in C," <i>Dr. Dobbs's Journal</i> . (October 30, 1992)	<input type="checkbox"/>

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